

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/035529

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C07D307/77 C07D405/12 C07D407/10 C07D407/12 A61K31/12

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/10958 A (LIGAND PHARMACEUTICALS INCORPORATED) 2 March 2000 (2000-03-02) claim 1 -----	1-29
A	BOEHM M F ET AL: "NOVEL NONSECOSTEROIDAL VITAMIN D MIMICS EXERT VDR-MODULATING ACTIVITIES WITH LESS CALCIUM MOBILIZATION THAN 1,25-DIHYDROXYVITAMIN D3" CHEMISTRY AND BIOLOGY, CURRENT BIOLOGY, LONDON, GB, vol. 6, no. 5, 6 April 1999 (1999-04-06), pages 265-275, XP000852987 ISSN: 1074-5521 the whole document ----- -/-	1-29

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

20 April 2005

Date of mailing of the international search report

28/04/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NAGPAL S ET AL: "VITAMIN D ANALOGS: MECHANISM OF ACTION AND THERAPEUTIC APPLICATIONS" CURRENT MEDICINAL CHEMISTRY, BENTHAM SCIENCE PUBLISHERS BV, BE, vol. 8, no. 13, November 2001 (2001-11), pages 1661-1679, XP009003249 ISSN: 0929-8673 the whole document -----	1-29

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: 18-23 in respect of industrial applicability because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 18-23 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

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PCT/US2004/035529

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0010958	A 02-03-2000	US	6218430 B1	17-04-2001
		AT	253032 T	15-11-2003
		AU	756336 B2	09-01-2003
		AU	5485299 A	14-03-2000
		CA	2339775 A1	02-03-2000
		DE	69912450 D1	04-12-2003
		DE	69912450 T2	29-07-2004
		DK	1107940 T3	08-03-2004
		EP	1107940 A1	20-06-2001
		ES	2207273 T3	16-05-2004
		JP	2002523388 T	30-07-2002
		PT	1107940 T	31-03-2004
		WO	0010958 A1	02-03-2000